SHC3 siRNA – SHC-Transforming Protein 3 (Human)

PRODUCT OVERVIEW

Product Name	SHC3, siRNA
Full Product Name	SHC3 siRNA (Human)
Product Gene Name	SHC3 sirna
Product Synonym Names	NSHC; SHCC; SHC-transforming protein 3; Neuronal Shc; N-Shc; Protein Rai; SHC-transforming protein C; Src homology 2 domain-containing-transforming protein C3; SH2 domain protein C3
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SHC3 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	51,939 Da
OMIM	605263
3D Structure	ModBase 3D Structure for Q92529
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human SHC3 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for SHC3 sirna	RNA Interference (RNAi)
Related Product Information for SHC3 sirna	MBS8229468 is an siRNA targeting SHC3. Also known as SHC3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SHC3 expression using RNA interference
Other Notes	Small volumes of SHC3 sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SHC3. It may not necessarily be applicable to this product.

NCBI GI #	224586793
NCBI GeneID	53358
NCBI Accession #	NP_058544.3
UniProt Primary Accession #	Q92529
UniProt Secondary Accession #	Q5T7I7; Q8TAP2; Q9UCX5
UniProt Related Accession #	Q92529
GenBank Nucleotide #	NM_016848.5
NCBI Official Full Name	SHC-transforming protein 3
NCBI Official Synonym Full Names	SHC (Src homology 2 domain containing) transforming protein 3
NCBI Official Symbol	SHC3
NCBI Official Synonym Symbols	RAI; NSHC; SHCC; N-Shc
UniProt Protein Name	SHC-transforming protein 3
UniProt Synonym Protein Names	Neuronal Shc; N-Shc; Protein Rai; SHC-transforming protein C; Src homology 2 domain-containing-transforming protein C3; SH2 domain protein C3
Protein Family	SHC-transforming protein
UniProt Gene Name	SHC3
UniProt Synonym Gene Names	NSHC; SHCC; N-Shc; SH2 domain protein C3
UniProt Entry Name	SHC3_HUMAN
NCBI Protein Information	SHC-transforming protein 3
UniProt Comments for SHC3	SHC3: an adapter protein containing an SH2 and a PID domain. Couples activated growth factor receptors to signaling pathway in neurons. Involved in the signal transduction pathways of neurotrophin-activated Trk receptors in cortical neurons and the regulation of NMDA receptor function in the hippocampus. May modulate hippocampal synaptic plasticity underlying learning and memory. Interacts with the Trk receptors in a phosphotyrosine-dependent manner. Once activated, binds to GRB2. Interacts with activated EGF receptors. Mainly expressed in brain. Hardly detectable in other tissues, except in pancreas. Highly expressed in the cerebral cortex, frontal and temporal lobes, occipital pole, hippocampus, caudate nucleus and amygdala. Expressed at low level in the cerebellum, medulla and spinal cord. A switch from Shc1 to Shc3 occurs during maturation of neuronal precursors to postmitotic neurons. Two alternatively spliced isoforms have been described. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 9q22.1 Cellular Component: plasma membrane; cytosol Molecular Function: signal transducer activity; protein binding; receptor tyrosine kinase binding; protein kinase binding Biological Process: epidermal growth factor receptor signaling pathway; synaptic transmission, glutamatergic; learning and/or memory; central nervous system development; nerve growth factor receptor signaling pathway; Ras protein signal transduction; insulin receptor signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on SHC3	**1.** Rai (ShcC/N-Shc), a member of the family of Shc-like adaptor proteins, as a new regulator of migration of normal and cancer stem/progenitor cells.

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